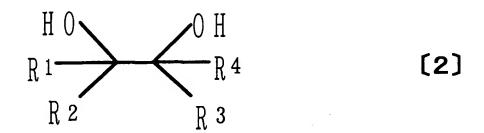
AMENDMENTS TO THE CLAIMS

1. (Currently amended) A method for producing a 1,2-diol compound represented by the general formula [2]:



wherein R^1 , R^2 , R^3 , and R^4 independently represent a hydrogen atom or an alkyl group having 1-30 carbons in a straight or branched chain with or without a substituent of one or more groups selected from an alkoxy group, an alkoxycarbonyl group, a sulfonic acid group, a cyano group, a nitro group, a hydroxyl group, or a carboxyl group, or wherein any two of R^1 , R^2 , R^3 , and R^4 lose a hydrogen atom to be bonded together to form a cycloalkane ring with a carbon atom bonding to any two of R^1 , R^2 , R^3 , and R^4 , comprising reacting an olefin compound represented by the general formula [1]:

$$R^{1}R^{2}C=CR^{3}R^{4}$$
 [1]

wherein R¹, R², R³, and R⁴ are as defined above,

with hydrogen peroxide in the presence of a polymer compound having a sulfonic acid group (with the proviso that a silicon oxide-titanium oxide based synthetic zeolite is not used as a catalyst in combination with the polymer compound).

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2. (Original) The method according to claim 1, wherein the hydrogen peroxide is in the

form of an aqueous hydrogen peroxide solution.

3. (Previously presented) The method according to claim 1 or 2, wherein the polymer

compound having a sulfonic acid group is a styrene polymer having a sulfonic acid group in a side

chain of the polymer.

4. (Previously presented) The method according to claim 1 or 2, wherein the polymer

compound having a sulfonic acid group is a styrene-divinylbenzene copolymer having a sulfonic

acid group in a side chain of the polymer.

5. (Previously presented) The method according to claim 1 or 2, wherein the polymer

compound having a sulfonic acid group is a fluorocarbon resin having a sulfonic acid group in a

side chain of the polymer.

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